

## ParaDyme v4.0.33954 and GeoSteer v2.0.33955 Firmware Release Notes

Ag Leader is pleased to announce the release of new firmware. Features and improvements in this version are listed below.

**Upgrades should be performed within 5 minutes of powering the system up; If the system was previously powered, power-cycle the system prior to performing the upgrade.**

### ***System Enhancement:***

**The following items have been added:**

- Enhanced: RTK system robustness during times of high satellite numbers

**NOTE:** GPS time is based on number of weeks since the beginning of GPS time (January 06, 1980) and number of seconds since the beginning of each week. The maximum number of weeks capable in GPS time is 1024 so it must reset back to 0.

*In April 2019, GPS time will experience a week rollover which means completion of week 1023. During this time, week number will roll back to 0 and start week count over. This firmware upgrade handles the week rollover to keep time on the correct year. Since ParaDyme and GeoSteer feature codes are time dependent, it is critical this update is performed or feature codes may be lost.*

## Known Limitation:

- **Power Cycle after Copying System Logs**  
The system should be power cycled after copying system logs to ensure proper GNSS startup
- **NTRIP – use the numerical IP address for an NTRIP server – not a name**  
Typing the name of the NTRIP server, rather than typing the IP address can cause problems. Always use the numeric IP address if available
- **After Import or Export Vehicle, GPS may not return automatically, requiring a reboot**  
The system stops tracking GPS during a vehicle import/export to speed up the operation. If the system does not return to tracking GPS, the system may need to be power cycled.
- **Downgrading to a lower version is not supported**  
The internal database may become corrupted. If this happens, the user must overwrite the existing database with the default database and all data will be lost.
- **Changing RTK Connection Type**  
Changing RTK Connection type (e.g. from NTRIP to Internal) can result in a system reset. A power cycle may be required.
- **Changing Differential Types from SBAS to Autonomous**  
A system reboot is required when differential type is changed between SBAS and Autonomous.
- **Changing vehicle profiles**  
The system supports multiple vehicle profiles so you can move your system between vehicles. A reboot may be required after changing vehicles and profiles to ensure the new profile is being used correctly especially if the orientation of the GCU is different between the vehicles.
- **Australian Cellular Services Require GPS Fix**  
In Australia, the cellular modem will not connect to the service provider the first time unless the system has a valid GPS position. The cellular network uses this information to activate the cellular plan and allow communications. This only has to be performed once.

## Conditions Requiring a System Reboot


In rare situations, the system may require a power cycle in order to restore operational status to the unit. If any of the following situations should occur, power-cycle the system before moving on to other troubleshooting options.

- The display freezes during the “loading” screen when attempting to enter the setup menu.
- Cellular communications do not work and the user finds that the cell modem has not been detected *My Account* tab under *Details / Cell Modem*.
- After copying system logs to ensure the GNSS engine starts up correctly.

## Expired Remote Service plans and Cell Modem reactivation – North America Only.

Remote services to all system whose service plan is in EXPIRED state will be deactivated. You can check your cell modem status by going to My Connections > Cell Modem in the setup menu. Technical Support can provide complete documentation for reactivating your cell modem

**NOTE:** You must reregister your cell modem BEFORE you reenter the feature codes for RTK ReadyConnect or Remote Service.

Cell Modem	
Status	Not Registered
Signal Strength	 -53 dBm
Mobile Identification Number (MIN)	7632073220
Mobile Directory Number (MDN)	7635704992

Configure Mobile Identification and Directory Number	
Status	Not Registered
Current Mobile Identification Number	7632073220
Current Mobile Directory Number	7635704992

**MIN (Mobile Identification Number)**  
A unique 10 character (24 bit) number assigned by the wireless service provider (carrier) to each cell modem it sells or includes in service plans. Unlike an Electronic Serial Number (ESN), a MIN is changeable because the cell modem may move to another coverage region, requiring a different service plan. The MIN and ESN are both automatically transmitted to the wireless network each time the cell modem is used.

**MDN (Mobile Directory Number)**  
The actual phone number one would dial to reach a specific cell modem. Prior to Wireless Number Portability, MDN was the same number as the MIN for many cell modems. But now that MDN numbers can be ported (moved) to other carriers, MDN and MIN will be different for ported numbers.

**NOTE:** If the Manage MIN/MDN button does not appear and you are certain that your cell modem has been deactivated, then it may be necessary to contact Technical Support for further assistance.